



## Edgar Delfino Tchissingui

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### PROFESSIONAL SUMMARY

Experienced Software Engineer with 5+ years in the full software development lifecycle, including digital transformation and AI implementation. Currently a University Lecturer and Mentor focusing on AI research, cybersecurity, software development, and youth development through technology. Proven leader in software development and competitive programming teams, with a strong commitment to interdisciplinary research and impactful, globally relevant technological solutions.

### KEY COMPETENCIES

- Academic Teaching & Curriculum Design
- Full-Stack Software Development
- Artificial Intelligence & Machine Learning
- Cybersecurity & Ethical Hacking
- Mentorship & Youth Leadership
- Project Management & Technical Coordination

### KEY ACHIEVEMENTS

- Co-founded **Ascende Mentor (2024)**, connecting **120+ mentees** with mentors in digital diplomacy and entrepreneurship.
- Led **ClimVect-AO (2025)**, a machine learning initiative for malaria risk prediction adopted by public health stakeholders.
- Developed **Ombela Market**, a local e-commerce platform, **onboarded 30+ vendors**.
- Coached university programming team to 2nd place in Bié Provincial Championship (2023).

### EDUCATION

#### Master's in Computer Engineering (Specialization in AI & Computer Networks)

- Polytechnic Institute - Katyavala Bwila University, Catumbela, Angola
- Expected Completion: Dec, 2025

#### Bachelor's in Computer Engineering (Graduated with Honor)

- Jose Eduardo dos Santos University, Cuito, Angola
- Graduation Year: 2022

### PROFESSIONAL EXPERIENCE

#### Lecturer – Instituto Superior Politécnico do Bié (2022 – Present)

- Courses taught: Computer Security, Software Engineering, Cybersecurity & Ethical Hacking
- Designed academic programs and practical labs for upper-year engineering students
- Integrated industry-relevant content into curricula, including real-case simulations

#### AI & Data Engineering – ClimVect-AO Research Project (2025 -Present)

- Research on the impact of climate change on vector-borne diseases in Angola
- Responsible for AI models, digital infrastructure, and data engineering solutions

#### Founder & Technical Lead – Edelf Empreendimentos (2021 - Present)

- Leading the digital transformation for local SMEs through custom software solutions
- Focused on impactful innovation, user-centered design, and business scalability
- Developed SaaS platforms including *Ombela Market* (local e-commerce) and *Ascende Mentor* (mentorship platform)

#### Software Developer & Consultant (Freelance, from 2018)

- Web and mobile application development for clients across Angola
- Technologies used: JavaScript - Node.js (NestJS), Nextjs, React, MongoDB, Firebase, Docker, Git, Flask (Python), PHP

## PROFESSIONAL EXPERIENCE

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### Programming Team Coach – Provincial Programming Championship (Bié) - 2023

- Mentored and trained university students in algorithmic problem-solving and competitive programming
- Led the team to win 2nd place at the Provincial Programming Championship
- Designed intensive coaching sessions and mock competitions

## TECHNICAL SKILLS

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- **Languages:** JavaScript/TypeScript, Python, Java, PHP
- **Frameworks:** NextJS, NestJS, React (and React Native), MedusaJS, Flask, Django, Laravel
- **Databases:** MongoDB, MySQL
- **Tools:** Docker, Git, Supabase, Convex, Postman
- **Other:** AI/ML (TensorFlow, scikit-learn, keras), Cybersecurity (Nmap, Wireshark)

## AWARDS & RECOGNITION

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- **2nd Place**, Provincial Programming Championship – **Team Coach (2023)**
- Recognized as a key digital leader in the Bié Province for youth development and innovation initiatives

## PROJECTS & PLATFORMS

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### Ascende Mentor (2025 - in progress)

- Online mentorship platform developed in Node.js and MongoDB with Supabase authentication and Jitsi video integration
- Focused on youth empowerment, collaborative learning, and professional development

### Ombela Market (2024 - in progress)

- Regional e-commerce marketplace built on MedusaJS
- Features include product management, local vendor integration, and digital payments (PayPal, Multicaixa Express)

## LANGUAGES

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- Portuguese: Native
- English: Fluent
- Umbundu: Intermediate (spoken and written)

## LEADERSHIP & VOLUNTEER EXPERIENCE

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### Founder – BeHappy Movement

- Led a youth movement aimed at personal and professional growth, innovation, and community service